

عنوان مقاله:

Liquid-Liquid Extraction of La (III) from Aqueous Solution by Mixture of Extractants and Its Use in a Supported Liquid Membrane System

محل انتشار:

هفدهمین کنگره ملی مهندسی شیمی ایران (سال: 1400)

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نویسندگان:

Pouria Zarei - Faculty of Chemical, Gas and Petroleum Engineering, Semnan University, Semnan, I. R. Iran, P.O. Box: ma19a-msm

Ali Haghighi Asl - Faculty of Chemical, Gas and Petroleum Engineering, Semnan University, Semnan, I. R. Iran, P.O. Βοχ:٣۵19۵-٣۶٣

Rezvan Torkaman - Nuclear Fuel Cycle Research School, Nuclear Science and Technology Research Institute, P.O. Box:۱۱۳۶۵-۸۴۸۶, Tehran, Iran

Mehdi Asadollahzadeh - Nuclear Fuel Cycle Research School, Nuclear Science and Technology Research Institute, P.O. Box: IIPF &- AFAF, Tehran, Iran

خلاصه مقاله:

The efficient removal of La(III) from an aqueous solution was investigated by flat-sheet supported liquid membrane. A mixture of TOPO, TBP, DYEHPA extractants was used as a carrier for lanthanum ion extraction. We have optimized various parameters such as ion concentration, acid concentration in the feed phase, strip phase concentration, and carrier concentration. Under the optimal condition with efficiency, the La(III) is transported from the feed phase to the stripping phase within a period of "h. This research would provide an appropriate approach for the recovery of rare .earth elements with the supported liquid membrane technique

كلمات كليدى:

Membrane, Lanthanum Ions, Carrier, Optimization Procedure, Stripping Phase

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